

GILA RIVER BASIN

09470500 SAN PEDRO RIVER AT PALOMINAS, AZ

LOCATION--Lat 31° 22'48", long 110° 06'38", in SW_{1/4}, SE_{1/4}, sec. 33, T.23 S., R.22 E., Cochise County, Hydrologic Unit 15050202, near left bank on downstream side of pier of bridge on State Highway 92, 0.7 mi east of Palominas, 2.5 mi upstream from Green Brush Draw, 4.5 mi downstream from international boundary, and 12 mi southwest of Bisbee.

DRAINAGE AREA--737 mi², of which 649 mi² is in Mexico.

PERIOD OF RECORD--May 1930 to Oct. 1933, May 1935 to July 1941, July 1950 to Sept. 30, 1981 (discontinued as a continuous-record station; converted to a crest-stage partial-record station), Oct. 1995 to current year.

GAGE--Water-stage recorder. Datum of gage is 4,187.62 ft above sea level (State Highway Department benchmark). See WSP 1733 for history of changes prior to Nov. 24, 1955.

REMARKS--Records good except for estimated daily discharges, which are fair. Small diversions for irrigation of a few hundred acres above station, mostly in Mexico. Records show approximate flow of river at international boundary.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 22,000 ft³/s Aug. 14, 1940, gage height, 16.16 ft, present datum, from rating curve extended above 5,600 ft³/s on basis of slope-area measurement of peak flow; no flow at times most years.

EXTREMES OUTSIDE PERIOD OF RECORD--Greatest flood since at least 1906 occurred Sept. 28, 1926, gage height, about 23.9 ft, present datum, from floodmarks; discharge not determined.

EXTREMES FOR CURRENT YEAR--Maximum discharge (*) and (or) peak discharges above base of 2,400 ft³/s:

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	July 29	0030	*3,910	*9.87
	Aug. 6	0115	3,080	8.87

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.57	0.26	1.5	3.8	4.4	4.2	2.2	0.17	0.11	0.03	2.4	0.00
2	0.67	0.30	1.6	3.7	4.4	4.1	2.0	0.17	0.10	0.02	290	0.00
3	0.67	0.38	1.7	3.8	5.2	4.0	1.9	0.17	0.11	0.02	45	0.00
4	0.75	0.34	1.8	3.8	5.6	4.1	1.8	0.17	0.14	0.02	119	0.00
5	0.63	0.29	2.0	3.8	5.2	4.1	1.7	0.17	0.16	0.01	114	0.00
6	0.55	0.41	2.1	3.7	4.7	4.0	1.7	0.20	0.18	0.01	612	0.00
7	0.58	0.48	2.1	3.7	4.4	3.9	1.7	0.20	0.11	0.01	3.2	0.01
8	0.54	0.48	2.2	3.8	4.5	3.8	1.6	0.20	0.11	0.01	2.0	0.01
9	0.53	0.46	2.2	3.8	4.4	3.7	1.5	0.20	0.10	0.03	141	0.01
10	0.51	0.50	2.4	4.0	4.3	3.8	1.3	0.22	0.14	0.03	131	10
11	0.48	0.53	2.5	4.1	4.3	3.7	1.2	0.20	0.15	0.05	177	1.7
12	0.41	0.54	2.8	3.9	4.3	3.7	1.1	0.19	0.12	0.03	7.1	0.00
13	0.39	0.55	2.9	4.0	4.4	3.7	0.99	0.19	0.10	0.04	0.09	0.00
14	0.39	0.57	3.0	4.0	4.3	3.5	0.95	0.17	0.11	0.09	0.22	0.00
15	0.36	0.66	3.1	4.1	4.1	3.4	0.87	0.17	0.10	0.10	2.2	0.00
16	0.31	0.70	3.1	4.3	4.1	3.3	0.85	0.17	0.10	0.13	0.11	0.00
17	0.27	0.71	3.3	4.3	4.1	3.4	0.80	0.17	0.09	0.15	0.08	0.00
18	0.26	0.72	3.2	4.3	4.0	3.4	0.73	0.14	0.08	0.14	0.03	0.00
19	0.26	0.78	3.3	4.2	4.0	3.5	0.61	0.14	0.06	0.23	34	0.00
20	0.28	0.78	3.4	4.2	4.0	3.4	0.57	0.13	0.06	0.20	4.1	0.00
21	0.26	0.83	3.4	4.2	4.1	3.2	0.51	0.13	0.07	27	0.48	0.00
22	0.26	0.88	3.5	4.3	4.2	3.1	0.52	0.13	0.06	5.8	0.15	0.00
23	0.26	0.97	3.4	4.3	4.2	3.0	0.47	0.12	0.05	5.7	0.06	0.00
24	0.24	1.0	3.7	4.4	4.2	3.0	0.40	0.12	0.05	5.2	0.00	0.00
25	0.28	1.1	3.7	4.3	4.1	3.1	0.31	0.11	0.06	194	0.00	0.00
26	0.29	1.2	3.8	4.3	4.1	3.1	0.27	0.11	0.05	68	0.00	0.00
27	0.26	1.3	3.9	4.4	4.2	3.0	0.22	0.12	0.05	316	0.00	0.00
28	0.22	1.4	3.7	4.5	4.2	2.9	0.21	0.12	0.03	239	0.00	0.00
29	0.23	1.4	3.7	4.9	---	2.6	0.20	0.13	0.02	592	0.00	0.00
30	0.26	1.4	3.8	4.6	---	2.5	0.18	0.14	0.03	10	0.00	0.00
31	0.26	---	3.8	4.4	---	2.3	---	0.13	---	9.1	0.00	---
TOTAL	12.23	21.92	90.6	127.9	122.0	106.5	29.36	4.90	2.70	1473.14	1685.22	11.70
MEAN	0.395	0.731	2.923	4.126	4.357	3.435	0.979	0.158	0.090	47.52	54.36	0.390
MAX	0.75	1.4	3.9	4.9	5.6	4.2	2.2	0.22	0.18	592	612	10
MIN	0.22	0.26	1.5	3.7	4.0	2.3	0.18	0.11	0.02	0.01	0.00	0.00
AC-FT	24	43	180	254	242	211	58	9.7	5.4	2920	3340	23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2002, BY WATER YEAR (WY)

MEAN	40.70	6.586	20.48	19.89	8.769	7.343	1.968	0.645	3.959	86.64	130.6	24.35
MAX	770	133	414	452	73.5	75.8	14.6	4.63	55.3	280	591	275
(WY)	1978	2001	1979	1979	1979	1978	1979	1979	2000	1959	1954	1958
MIN	0.000	0.000	0.097	0.035	0.071	0.22	0.000	0.000	0.000	0.26	2.68	0.027
(WY)	1966	1966	1954	1954	1954	1972	1969	1965	1962	1997	1962	2000

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1950 - 2002

ANNUAL TOTAL	8647.58		3688.17									
ANNUAL MEAN		23.69		10.10								
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	2210	Aug 14		612	Aug 6		10300	Oct 9	1977			
LOWEST DAILY MEAN	0.13	Jun 8		0.00	Jul 6		0.00	Jun 16	1951			
ANNUAL SEVEN-DAY MINIMUM	0.14	Jun 7		0.00	Aug 24		0.00	Jun 6	1953			
ANNUAL RUNOFF (AC-FT)	17150		7320				21970					
10 PERCENT EXCEEDS	19		4.4				29					
50 PERCENT EXCEEDS	3.5		0.70				1.2					
90 PERCENT EXCEEDS	0.26		0.00				0.00					